The National Map (TNM) Webinar Delivery Presentation
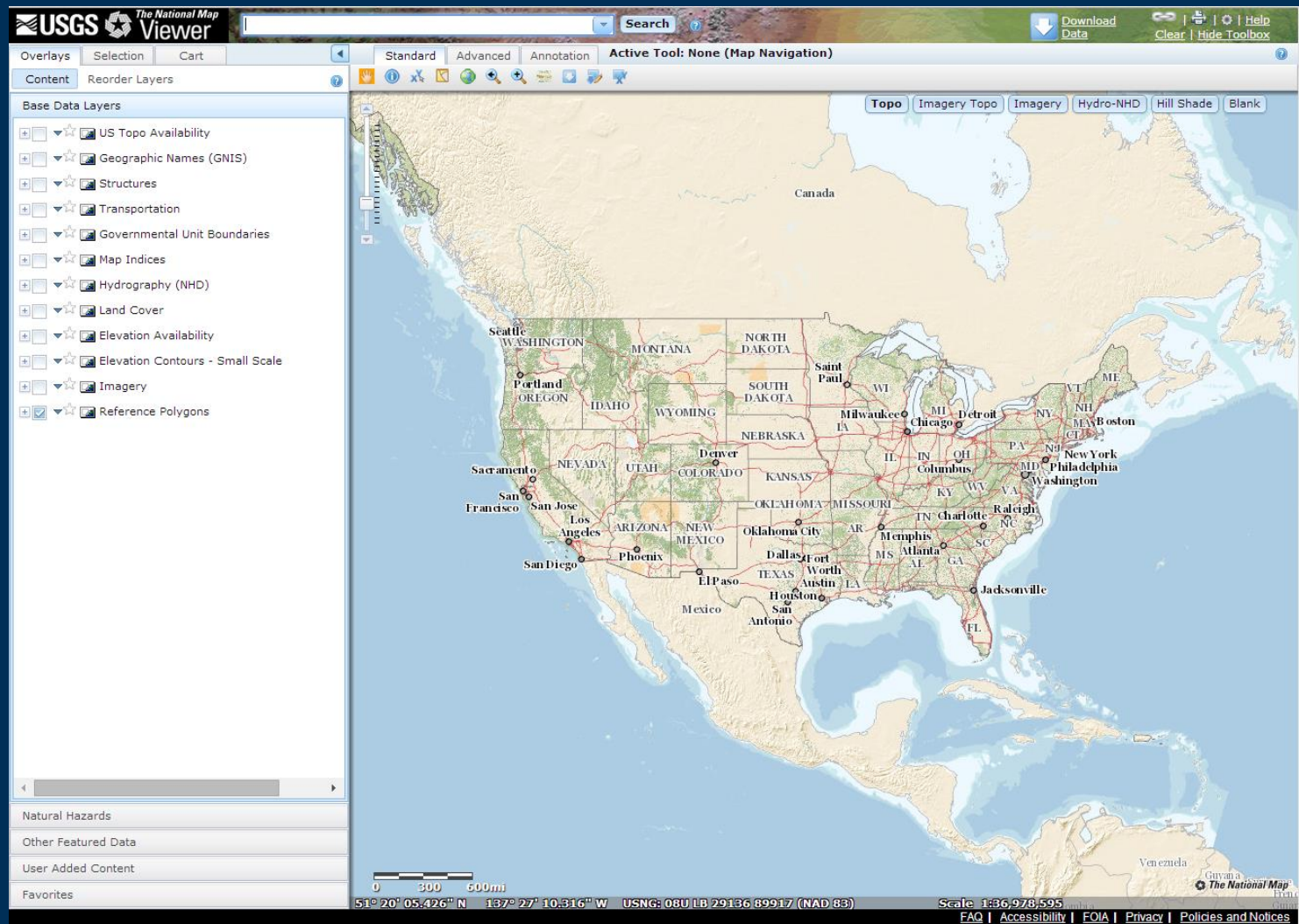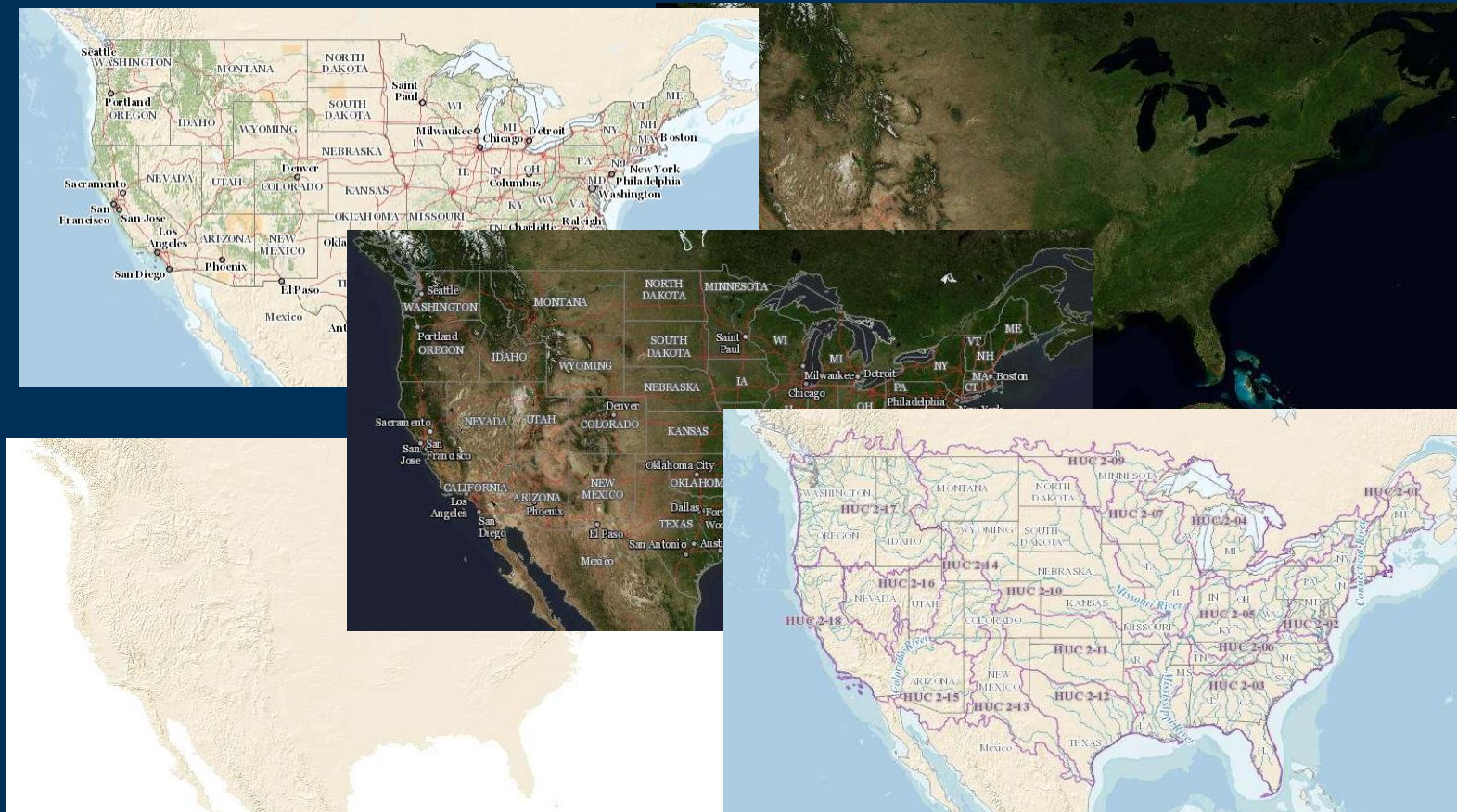
Using The National Map services to enable your web and mobile mapping efforts

May 30, 2014

http://viewer.nationalmap.gov

Cached Base Map Services

http://viewer.nationalmap.gov/example/services/serviceList.html

- **Map Services**
  - **Base Maps**
    - **Cached Base Maps to 1:18k**
    - **Corresponding Large-scale dynamic services below 1:18k**
  - **Dynamic Overlay Services**
    - **Scale-dependencies noted in REST interfaces**
  - **ArcGIS REST**
  - **OGC-WMS, WFS, WCS**
- **Other Services**
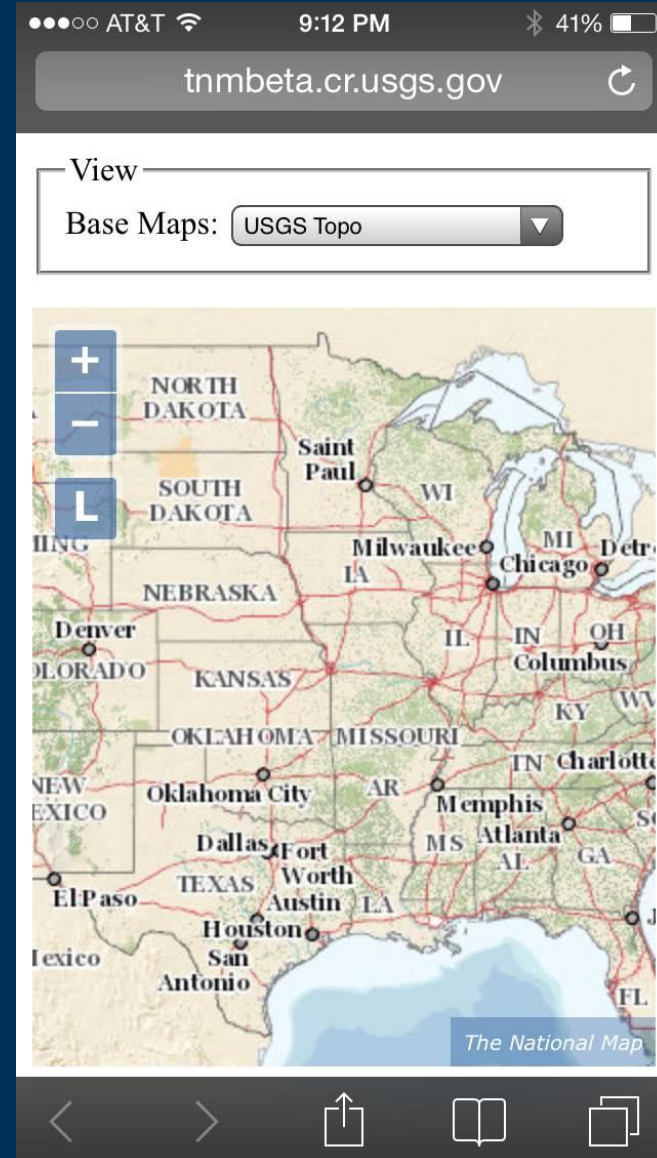 - **Elevation Point Query Service**
  - **Streamer**
  - **FTP Services**

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http://tnmbeta.cr.usgs.gov/example/maps/olv3/tnm_olv3.html

Mobile Base Map Example

- OpenLayers 3 (beta)

- All Base Maps using Layer Groups to combine scale-dependent WMS large-scale services as appropriate.

- GeoLocate function

http://viewer.nationalmap.gov/example/

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The National Map **Viewer** BETA

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The National Map - Demo Examples

The following examples demonstrate usage of *The National Map* services in other APIs.

Alternate Views

1. USGS Topo in Google Maps - USGS Topo REST service from *The National Map* rendered with the Google Maps API.
2. USGS Topo in Leaflet - USGS Topo REST service from *The National Map* rendered with the Leaflet API.
3. USGS Topo in OpenLayers 2 - USGS Topo REST service from *The National Map* rendered with the OpenLayers 2.11 API.
4. TNM Vectors Fills in Bing Maps - Vector Fills REST service from *The National Map* rendered with the Bing Maps API (for tiled services only).
5. TNM Transportation in Google Earth - opens a .kmz file to demonstrate the Transportation REST service from *The National Map* rendered in the Google Earth application, which would need to be previously downloaded and installed by the user.
6. TNM Base Maps in OpenLayers 3 Mobile - A simple mobile-capable viewer for our five Base Maps (including corresponding large-scale dynamic WMS services) with Geolocation enabled by clicking on the 'L' icon within the OpenLayers 3 map view.

Services

1. Services List - shows all service endpoints used in *The National Map* Viewer to include base maps, base data layers, natural hazards, and other featured data. Base data layer services support the eight primary themes of Elevation, Geographic Names, Governmental Unit Boundaries, Hydrography, Land Cover, Orthoimagery, Structures, and Transportation.
2. Service Legends - displays legend icons for selected Esri ArcGIS map services to include services used by *The National Map* Viewer.

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Staged Products
ftp://rockyftp.cr.usgs.gov/vdelivery/Datasets/Staged/

- **Download Access through Viewer**
- **Prototype Download Client & API in-work**
  - **Demonstrating advanced query options**
  - **Publishing Service Access to Products & Services**
- **Direct FTP Service Access**
  - ftp://rockyftp.cr.usgs.gov/vdelivery/Datasets/Staged/
- **ScienceBase Public Interface & Query API**
  - https://www.sciencebase.gov/catalog/item/4f552e93e4b018de15819c51
- **ScienceBase API Developer Documentation**
  - https://my.usgs.gov/confluence/display/sciencebase/ScienceBase
- **Future Cloud Access**

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Going Forward

- **Enable Data Access at lower (API) levels.**
- **Make Data Access more reliable.**
- **Keep Products & Services complete and current.**
- **Improve Products & Services based on Customer feedback.**

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